

Message

From: Walker, Stuart [Walker.Stuart@epa.gov]
Sent: 10/7/2020 6:44:37 PM
To: Praskins, Wayne [Praskins.Wayne@epa.gov]
Subject: RE: BPRG/BDCC

The one year is pretty common. NRC and all the state dose limits for site remediation/decommissioning are expressed as ## millirem per year.

The BPRG residential default of 26 years is taken from an OLEM guidance that updated a lot of the default input parameter. The 26 years is also in the RSL, VISL, PRG, and SPRG risk assessment calculators. A 2014 OLEM guidance made the change from 30 to 26 years based on the 2011 Exposure Factors Handbook
<https://semspub.epa.gov/work/HQ/190670.pdf>

Attachment 1. Recommended Default Exposure Factors (2014)

Symbol	Definition (units)	Previous Default Value	Currently Recommended Value	Source of current recommendation	Source of previous recommendation
EF _r	Resident Exposure Frequency (days/yr)	350	350	U.S. EPA 1991a (pg. 15); value not provided in EFH 2011	U.S. EPA 1991a (pg. 15)
EF _w	Worker Exposure Frequency (days/yr)	250	250	U.S. EPA 1991a (pg. 15); value not provided in EFH 2011	U.S. EPA 1991a (pg. 15)
EF _{iw}	Indoor Worker Exposure Frequency (days/yr)	250	250	U.S. EPA 1991a (pg. 15); value not provided in EFH 2011	U.S. EPA 1991a (pg. 15)
EF _{ow}	Outdoor Worker Exposure Frequency (days/yr)	225	225	U.S. EPA 2002; value not provided in EFH 2011	U.S. EPA 1991a (pg. 15)
ED _r	Resident Exposure Duration (yr)	30	26	EPA 2011a, Table 16-102; 50th percentile for current residence time	U.S. EPA 1991a (pg. 15)
ED _c	Resident Exposure Duration - child (yr)	6	6	U.S. EPA 1991a, Pages 6 and 15	U.S. EPA 1991a (pg. 15)
ED _a	Resident Exposure Duration - adult (yr)	24	20	EDr (26 years) - EDc (6 years)	U.S. EPA 1991a (pg. 15)

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From: Praskins, Wayne <Praskins.Wayne@epa.gov>
Sent: Wednesday, October 07, 2020 12:20 PM
To: Walker, Stuart <Walker.Stuart@epa.gov>
Subject: RE: BPRG/BDCC

Is one year tied to an NRC dose limit or some other widely used standard? And is it correct that the BPRG default is 26 years?

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From: Walker, Stuart <Walker.Stuart@epa.gov>
Sent: Tuesday, October 6, 2020 10:29 PM
To: Praskins, Wayne <Praskins.Wayne@epa.gov>

Cc: Young, Dianna <Young.Dianna@epa.gov>

Subject: RE: BPRG/BDCC

Yes, for the DCC tools they are using a target dose in terms of millirem per year, so its one year of exposure.

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From: Praskins, Wayne <Praskins.Wayne@epa.gov>

Sent: Monday, October 05, 2020 9:49 PM

To: Walker, Stuart <Walker.Stuart@epa.gov>

Subject: BPRG/BDCC

Stuart –

Having some back and forth again with the Navy about Hunters Point.

I see in the BDCC users guide that the default value for t_{res} is 1 year (both in the ingestion equation in Section 4.1.1 and in Table 1). Is that right?

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